

Datasheet for ABIN7596290

BACE1 Protein (AA 22-457) (His tag)



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Overview

Quantity:	500 µg
Target:	BACE1
Protein Characteristics:	AA 22-457
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BACE1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	<p>TQHGI RLPLR SGLGGAPLGL RLPRETDEEP EEPGRRGSFV EMVDNLRGKS GQGYVEMTV</p> <p>GSPPQTLNIL VDTGSSNFAV GAAPHPFLHR YYQRQLSSTY RDLRKG VYVP YTQGKWEGEL</p> <p>GTDLV SIPHG PNVTVRANIA AITESDKFFI NGSNWEGILG LAYAEIARPD DSLEPF FDSL</p> <p>VKQTHVP NLF SLQLCGAGFP LNQSEVLASV GGSMIIGGID HSLYTGSLWY TPIRREWYYE</p> <p>VIIVRVEING QDLKMDCKEY NYDKSIVDSG TTNLR LPKKV FEA AVKSIKA ASSTEKFPDG</p> <p>FWLGEQLVCW QAGTTPWNIF PVISLYLMGE VTNQSFRTI LPQQLRPVE DVATSQDDCY</p> <p>KFAISQSSTG TVMGAVIMEG FYVVFDRARK RIGFAVSACH VHDEFRTAAV EGP FVTLDME</p> <p>DCGYNIPQTD ESTLMT</p>
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Product Details

Biological Activity Comment: Specific activity is > 5pmol/min/ug in which one unit will convert 1.0pmole of Mca-SEVNLDAEFRK(Dnp)RR-NH₂ to MCA- Pro-Leu-OH per minute at pH 3.5 at 25C.

Target Details

Target:	BACE1
Alternative Name:	BACE-1 (BACE1 Products)
Background:	BACE-1, also known as beta-secretase 1 isoform A, is a member of aspartic protease and an integral membrane protein. It is involved in the proteolytic processing of the amyloid precursor protein (APP). This protein cleaves at the N-terminus of the A-beta peptide sequence of APP, and then leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase. It has been implicated in the onset and/or progression of Alzheimer's disease. It is also distantly related to the pathogenic aspartic-acid protease plasmepsin, which is a potential target for future anti-malarial drugs. Recombinant human BACE-1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	49.2 kDa (442aa)
NCBI Accession:	NP_036236

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.